GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: March 2, 2002, 20:03:35 ; Search time 4779.51 Seconds
(without alignments)
242.005 Million cell updates/sec

Title: US-09-540-235-1
Perfect score: 408
Sequence: 1 acgccgtcgattgagaatta.....acatccatctaatgttgtta 408

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2370470 seqs, 1417481579 residues

Total number of hits satisfying chosen parameters: 4740940

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_NA_New:*
1: /cgn2_6/ptodata/1/pna/PCT_NEW_COMB.seq:*
2: /cgn2_6/ptodata/1/pna/US06_NEW_COMB.seq:*
3: /cgn2_6/ptodata/1/pna/US07_NEW_COMB.seq:*
4: /cgn2_6/ptodata/1/pna/US08_NEW_COMB.seq:*
5: /cgn2_6/ptodata/1/pna/US09_NEW_COMB.seq:*
6: /cgn2_6/ptodata/1/pna/US09_NEW_COMB.seq1:*
7: /cgn2_6/ptodata/1/pna/US09_NEW_COMB.seq2:*
8: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq:*
9: /cgn2_6/ptodata/1/pna/US60_NEW_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	114.6	28.1	605	8	US-10-021-323-15008	Sequence 15008, A
	2	112	27.5	406	7	US-09-637-086D-34627	Sequence 34627, A
	3	111.8	27.4	353	7	US-09-637-086D-3033	Sequence 3033, Ap
	4	110.4	27.1	409	7	US-09-637-086D-33126	Sequence 33126, A
	5	102	25.0	414	6	US-09-985-678-258232	Sequence 258232,
	6	102	25.0	495	6	US-09-985-678-206204	Sequence 206204,
	7	102	25.0	557	6	US-09-985-678-226032	Sequence 226032,
	8	100.8	24.7	598	6	US-09-985-678-219271	Sequence 219271,
	9	99.8	24.5	422	7	US-09-637-086D-33331	Sequence 33331, A
c	10	99.8	24.5	619	7	US-09-874-708A-47173	Sequence 47173, A
	11	99.6	24.4	540	8	US-10-029-386-3796	Sequence 3796, Ap
	12	98.2	24.1	464	6	US-09-985-678-274043	Sequence 274043,
	13	98.2	24.1	495	7	US-09-874-708A-12192	Sequence 12192, A
	14	98.2	24.1	529	7	US-09-874-708A-18007	Sequence 18007, A
	15	98	24.0	388	7	US-09-975-673A-7984	Sequence 7984, Ap
	16	97.2	23.8	435	6	US-09-985-678-267732	Sequence 267732,
	17	96	23.5	407	6	US-09-985-678-98345	Sequence 98345, A
	18	95.6	23.4	649	5	US-09-873-402A-76679	Sequence 76679, A
	19	95.2	23.3	778	6	US-09-898-888A-23085	Sequence 23085, A
	20	94.4	23.1	455	7	US-09-939-397-19720	Sequence 19720, A
	21	94.4	23.1	471	7	US-09-925-564-45093	Sequence 45093, A
	22	94	23.0	419	6	US-09-985-678-85084	Sequence 85084, A
	23	94	23.0	508	7	US-09-865-439A-58773	Sequence 58773, A
	24	94	23.0	589	7	US-09-865-439A-98137	Sequence 98137, A
	25	94	23.0	602	7	US-09-865-439A-91621	Sequence 91621, A
	26	94	23.0	641	7	US-09-865-439A-92383	Sequence 92383, A
	27	94	23.0	650	5	US-09-873-402A-78836	Sequence 78836, A
	28	94	23.0	658	7	US-09-865-419A-37669	Sequence 37669, A
	29	94	23.0	676	7	US-09-865-419A-35754	Sequence 35754, A
	30	93.2	22.8	521	8	US-10-025-600-476	Sequence 476, App
c	31	93.2	22.8	668	7	US-09-865-439A-72266	Sequence 72266, A
	32	92.8	22.7	443	7	US-09-925-564-34912	Sequence 34912, A
	33	92.8	22.7	445	7	US-09-939-397-21664	Sequence 21664, A
	34	92.8	22.7	497	6	US-09-933-524A-43292	Sequence 43292, A
	35	92.8	22.7	502	7	US-09-939-397-24560	Sequence 24560, A
	36	92.6	22.7	336	7	US-09-637-086D-35784	Sequence 35784, A
	37	92.6	22.7	404	6	US-09-985-678-89957	Sequence 89957, A
	38	92.4	22.6	413	7	US-09-939-397-17917	Sequence 17917, A
	39	92.4	22.6	430	7	US-09-865-439A-47358	Sequence 47358, A
	40	92.4	22.6	522	7	US-09-696-664A-12659	Sequence 12659, A
	41	92.4	22.6	604	7	US-09-865-439A-73783	Sequence 73783, A
	42	92.4	22.6	622	7	US-09-865-439A-99078	Sequence 99078, A
	43	92.4	22.6	627	5	US-09-873-402A-27276	Sequence 27276, A
	44	92.4	22.6	633	7	US-09-865-439A-34240	Sequence 34240, A
	45	92.4	22.6	633	7	US-09-865-439A-37029	Sequence 37029, A

ALIGNMENTS

RESULT 1
US-10-021-323-15008
; Sequence 15008, Application US/10021323
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Fincher, Karen L.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021,323
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 619
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 15008
; LENGTH: 605
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3829-019-Q6-K6-C7
US-10-021-323-15008

Query Match 28.1%; Score 114.6; DB 8; Length 605;
Best Local Similarity 59.8%; Pred. No. 4.4e-24;
Matches 192; Conservative 0; Mismatches 129; Indels 0; Gaps 0;

```
Qy      88 cagtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcat 147
           |||  |  ||||||||   |  |  ||| || || ||| |  | |||    | || ||
Db      54 cagcagaaatgaagtacaacccacgtgtctcctcctctcgccgtaagagccgcaaggccc 113

Qy     148 actttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaac 207
           | ||    ||||| || || || || ||  |  | ||||| || ||  | || |  || |
Db     114 atttcacggcaccttcgtccgtccgccgtgttttgatgagcgctccactctcgaccgatc 173

Qy     208 tacgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatag 267
           |  |  | ||||||| ||| || ||  | ||| |||| || || ||||| ||     | |
Db     174 tgaggtccaaatacaacgtccggtccatgcctgttcgcaaggacgacgaggtccaagtcg 233

Qy     268 ttcgcggagctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatc 327
           |||||||  | | ||| ||  | ||||| |||||          || |||   ||||
Db     234 ttcgcggtacctacaaaggccgcgaagggaaagtcgtgcaagtgtaccgacgcaaatggg 293

Qy     328 ggatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaa 387
           ||| || || ||| |  | ||  | || |||| ||| ||   ||| ||    || || |
```

```
Db    294 tgatccacattgagcgtatcacgcgggagaaagtgaacgggtcgaccgtcaacgtcggta 353

Qy    388 tacatccatctaatgttgtta 408
          |  | ||||| || || || |
Db    354 tcaacccatcgaaggtcgtca 374


RESULT   2
US-09-637-086D-34627
; Sequence 34627, Application US/09637086D
; GENERAL INFORMATION:
;  APPLICANT: Fincher, Karen L.
;  APPLICANT:  La Rosa, Thomas J.
;  APPLICANT:  McCarter, David W.
;  APPLICANT:  Pear, Julie R.
;  TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(51375)B
;  CURRENT APPLICATION NUMBER: US/09/637,086D
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: US 60/149,881
;  PRIOR FILING DATE: 1999-08-19
;  NUMBER OF SEQ ID NOS: 52949
; SEQ ID NO 34627
;   LENGTH: 406
;   TYPE: DNA
;   ORGANISM: Gossypium hirsutum
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(406)
;   OTHER INFORMATION: unsure at all n locations
;   OTHER INFORMATION: Clone ID: LIB3149-039-Q1-K1-B6
US-09-637-086D-34627


 Query Match             27.5%;  Score 112;  DB 7;  Length 406;
  Best Local Similarity   59.2%;  Pred. No. 2.3e-23;
  Matches  190;  Conservative    0;  Mismatches  131;  Indels    0;  Gaps    0;

Qy     88 cagtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcat 147
          |||  |  | ||||||   |  |  ||  || || ||| |  | |||    | || ||
Db     54 caggggaaaggaagtacaacccacgtgnctcctcctctcgccgtaagagccgcaaggccc 113

Qy    148 actttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaac 207
          | ||    ||||  || || || || ||| |  | ||||| || ||  | || |  || |
Db    114 atttcacggcactttcgtccgtccgccgagttttgatgagcgctccactctcgaccgatc 173

Qy    208 tacgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatag 267
          |  |  | ||||||| ||| || ||  | ||| |||| || || ||||| ||     | |
Db    174 tgaggtccaaatacaacgtccggtccatgcctgttcgcaaggacgacgaggtccaagtcg 233

Qy    268 ttcgcggagctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatc 327
          |||||||  | | ||| ||  | ||||| |||||          || |||   ||||
Db    234 ttcgcggtacctacaaaggccgcgaagggaaagtcgtgcaagtgtaccgacgcaaatggg 293

Qy    328 ggatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaa 387
           ||| || || ||| |  | ||  | || |||| ||| ||   ||| ||    || || |
Db    294 tgatccacattgagcgtatcacgcgggagaaagtgaacgggtcgaccgtcaacgtcggta 353

Qy    388 tacatccatctaatgttgtta 408
          |  | ||||| || || || |
Db    354 tcaacccatcgaaggtcgtca 374


RESULT   3
US-09-637-086D-3033
; Sequence 3033, Application US/09637086D
; GENERAL INFORMATION:
;  APPLICANT: Fincher, Karen L.
;  APPLICANT:  La Rosa, Thomas J.
;  APPLICANT:  McCarter, David W.
;  APPLICANT:  Pear, Julie R.
;  TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(51375)B
;  CURRENT APPLICATION NUMBER: US/09/637,086D
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: US 60/149,881
;  PRIOR FILING DATE: 1999-08-19
;  NUMBER OF SEQ ID NOS: 52949
; SEQ ID NO 3033
;   LENGTH: 353
;   TYPE: DNA
;   ORGANISM: Gossypium hirsutum
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3083-066-Q1-L1-H10
US-09-637-086D-3033


  Query Match             27.4%;  Score 111.8;  DB 7;  Length 353;
  Best Local Similarity   59.7%;  Pred. No. 2.5e-23;
  Matches  188;  Conservative    0;  Mismatches  127;  Indels    0;  Gaps    0;

Qy     94 ccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatactttc 153
          | ||||||||   |     ||| ||||  ||| |  | |||    | || ||  | ||
Db     12 caatgaagtacaacccgcgtgtctcgtgctctcgccgcaagagccgcaaggctcatttca 71

Qy    154 aagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaactacgta 213
          ||||||  ||||| || || ||  |  | ||||| |||||| | ||    || ||
Db     72 cagcaccttcttccgtccgccgcgtcttaatgagcgcacccctctcatccgatctgaagt 131

Qy    214 cgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagttcgcg 273
          | || |||| ||| || ||| | ||  | || || || ||||| ||     | ||||| |
Db    132 ccaagtacaacgtccggtctatgccggtgcgcaaggatgacgaggtccaagtggttcgtg 191

Qy    274 gagctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcggatac 333
          |  | | ||||||  | ||||| |||||          || ||    ||||    ||| |
Db    192 ggacctacaagggacgcgaagggaaagtggttcaagtgtaccgccgcaaatgggtgatcc 251

Qy    334 atatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaatacatc 393
          | |||||| |  | ||  | || |||| ||| ||    || ||    || || ||  | |
Db    252 acatcgagcgcatcacgcgcgagaaagtgaacggttccaccgtcaacgttgggatcaacc 311

Qy    394 catctaatgttgtta 408
          |||| || ||||| |
Db    312 catccaaggttgtca 326


RESULT   4
US-09-637-086D-33126
; Sequence 33126, Application US/09637086D
; GENERAL INFORMATION:
;  APPLICANT: Fincher, Karen L.
;  APPLICANT:  La Rosa, Thomas J.
;  APPLICANT:  McCarter, David W.
;  APPLICANT:  Pear, Julie R.
;  TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(51375)B
;  CURRENT APPLICATION NUMBER: US/09/637,086D
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: US 60/149,881
;  PRIOR FILING DATE: 1999-08-19
;  NUMBER OF SEQ ID NOS: 52949
; SEQ ID NO 33126
;   LENGTH: 409
;   TYPE: DNA
;   ORGANISM: Gossypium hirsutum
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3149-018-Q1-K1-F12
US-09-637-086D-33126


  Query Match             27.1%;  Score 110.4;  DB 7;  Length 409;
  Best Local Similarity   58.5%;  Pred. No. 6.9e-23;
  Matches  192;  Conservative    0;  Mismatches  136;  Indels    0;  Gaps    0;
```

```
Qy      81 cttgtatcagtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagagg 140
           | ||   | |   | ||||||||   |     ||| || || ||| |  | |||    |
Db      15 cctgccgccgcaacaatgaagtacaacccgcgtgtctcctcctctcgccgcaagagccga 74

Qy     141 aaagcatactttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtcc 200
           || ||  | ||   |||||| ||||| || || ||  |  | ||||| |||||| | ||
Db      75 aaggcccatttcacagcaccttcttccgtccgccgcgtcttaatgagcgcacccctctca 134

Qy     201 aaggaactacgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagta 260
             || ||     | || |||| ||| || ||| | ||  | || || || |||||  ||
Db     135 tccgatctgaagtccaagtacaacgtccggtctatgccggtgcgcaaggatgacgaggtc 194

Qy     261 atcatagttcgcggagctttcaagggtagagaaggaaaagttacaacgtgttatcgaaag 320
           |  |||| ||  | | ||||||  | |||||  |||||          || ||
Db     195 caagtgattcgtgggacctacaagggacgggaagggaaagtggttcaagtgtaccgccgc 254

Qy     321 aaatatcggatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacct 380
           ||||    ||| || |||||| |  | ||  | || |||| ||| ||    || ||
Db     255 aaatgggtgatccacatcgagcgcatcacgcgcgagaaagtgaacggttccaccgtcaac 314

Qy     381 gtgggaatacatccatctaatgttgtta 408
           || || ||  | ||||| || ||||| |
Db     315 gttgggatcaacccatccaaggttgtca 342


RESULT  5
US-09-985-678-258232
; Sequence 258232, Application US/09985678
; GENERAL INFORMATION:
;  APPLICANT: Cheikh, Nordine
;  APPLICANT:  Liu, Jingdong
;  TITLE OF INVENTION: Annotated Plant Genes
;  FILE REFERENCE: 16517.255/38-21(15097)F
;  CURRENT APPLICATION NUMBER: US/09/985,678
;  CURRENT FILING DATE:  2001-11-05
;  PRIOR APPLICATION NUMBER: US 09/304,517
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 295529
; SEQ ID NO 258232
;   LENGTH: 414
;   TYPE: DNA
;   ORGANISM: Glycine max
US-09-985-678-258232


  Query Match             25.0%;  Score 102;  DB 6;  Length 414;
  Best Local Similarity   57.5%;  Pred. No. 2.2e-20;
  Matches  183;  Conservative    0;  Mismatches  135;  Indels    0;  Gaps    0;

Qy      89 agtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcata 148
           ||   | ||||||| |  |  |   || || ||     |  |||||    | || ||  |
Db      21 agagacaatgaagtttaacccaagggtttcctcaagccgtcgaaagagccgcaaggctca 80

Qy     149 ctttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaact 208
           |||    || || ||    || || ||  | || ||||| || ||  | || |  || ||
Db      81 cttcaccgctccgtcgagcgtgcgtcgcgtcctgatgagcgcgcctctctcgaccgatct 140

Qy     209 acgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagt 268
            ||  |||| |||| ||| || ||  | ||  |||| || || ||||| ||     | ||
Db     141 ccggtcgaagtacaacgtgcggtccattccggttcgcaaggacgacgaggtgcaagtggt 200

Qy     269 tcgcggagctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcg 328
           | ||| | | ||||||  | || || |||||      |   |||||    || |
Db     201 gaggggaacctacaagggccgcgagggcaaagtggtccaggtctatcgccgcaagtgggt 260

Qy     329 gatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaat 388
           || || |||||| |  | ||| | || || |  || ||    || ||    || || ||
Db     261 catccacatcgagcgcatcacccgcgagaaggttaacggctccaccgtcaacgttggcat 320

Qy     389 acatccatctaatgttgt 406
           || || || || |||||
Db     321 tcacccttccaaggttgt 338


RESULT  6
US-09-985-678-206204
; Sequence 206204, Application US/09985678
; GENERAL INFORMATION:
;  APPLICANT: Cheikh, Nordine
;  APPLICANT:  Liu, Jingdong
;  TITLE OF INVENTION: Annotated Plant Genes
;  FILE REFERENCE: 16517.255/38-21(15097)F
;  CURRENT APPLICATION NUMBER: US/09/985,678
;  CURRENT FILING DATE:  2001-11-05
;  PRIOR APPLICATION NUMBER: US 09/304,517
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 295529
; SEQ ID NO 206204
;   LENGTH: 495
;   TYPE: DNA
;   ORGANISM: Glycine max
US-09-985-678-206204


  Query Match             25.0%;  Score 102;  DB 6;  Length 495;
  Best Local Similarity   57.5%;  Pred. No. 2.3e-20;
  Matches  183;  Conservative    0;  Mismatches  135;  Indels    0;  Gaps    0;

Qy      89 agtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcata 148
           ||   | ||||||| |  |  |   || || ||     |  |||||    | || ||  |
Db      54 agagacaatgaagtttaacccaagggtttcctcaagccgtcgaaagagccgcaaggctca 113

Qy     149 ctttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaact 208
           |||    || || ||    || || ||  | || ||||| || ||  | || |  || ||
Db     114 cttcaccgctccgtcgagcgtgcgtcgcgtcctgatgagcgcgcctctctcgaccgatct 173

Qy     209 acgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagt 268
            ||  |||| |||| ||| || ||  | ||  |||| || || ||||| ||     | ||
Db     174 ccggtcgaagtacaacgtcggtccattccggttcgcaaggacgacgaggtgcaggtggt 233

Qy     269 tcgcggagctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcg 328
           | ||| | | ||||||  | || || |||||      |   |||||    || |
Db     234 gaggggaacctacaagggccgcgagggcaaagtggtccaggtctatcgccgcaagtgggt 293

Qy     329 gatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaat 388
           || || |||||| |  | ||| | || || |  || ||    || ||    || || ||
Db     294 catccacatcgagcgcatcacccgcgagaaggttaacggctccaccgtcaacgttggcat 353

Qy     389 acatccatctaatgttgt 406
           || || || || |||||
Db     354 tcacccttccaaggttgt 371


RESULT  7
US-09-985-678-226032
; Sequence 226032, Application US/09985678
; GENERAL INFORMATION:
;  APPLICANT: Cheikh, Nordine
;  APPLICANT:  Liu, Jingdong
;  TITLE OF INVENTION: Annotated Plant Genes
;  FILE REFERENCE: 16517.255/38-21(15097)F
;  CURRENT APPLICATION NUMBER: US/09/985,678
;  CURRENT FILING DATE:  2001-11-05
;  PRIOR APPLICATION NUMBER: US 09/304,517
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 295529
; SEQ ID NO 226032
;   LENGTH: 557
;   TYPE: DNA
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(557)
;   OTHER INFORMATION: unsure at all n locations
US-09-985-678-226032
```

Query Match 25.0%; Score 102; DB 6; Length 557;
Best Local Similarity 57.5%; Pred. No. 2.4e-20;
Matches 183; Conservative 0; Mismatches 135; Indels 0; Gaps 0;

```
Qy      89 agtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcata 148
           ||   | |||||||  |   |   |    || || ||      |  |||||    | || ||  |
Db      40 agagacaatgaagtttaacccaagggtttcctcaagccgtcgaaagagccgcaaggctca 99

Qy     149 ctttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaact 208
           |||    || || ||    || || ||  | || ||||| || ||  | || |  || ||
Db     100 cttcaccgctccgtcgagcgtgcgtcgcgtcctgatgagcgcgcctctctcgaccgatct 159

Qy     209 acgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagt 268
            ||  |||| |||| ||| || ||  | ||  |||| || || ||||| ||     | ||
Db     160 ccggtcgaagtacaacgtgcggtccattccggttcgcaaggacgacgaggtgcaggtggt 219

Qy     269 tcgcggagctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcg 328
             | ||| | | |||||  | || || |||||      |   |||||    || |
Db     220 gaggggaacctacaagggccgcgagggcaaagtggtccaggtctatcgccgcaagtgggt 279

Qy     329 gatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaat 388
            || || ||||||  |  | ||| | || || |  || ||    || ||    || || ||
Db     280 catccacatcgagcgcatcacccgcgagaaggttaacggctccaccgtcaacgttggcat 339

Qy     389 acatccatctaatgttgt 406
           || || || || |||||
Db     340 tcacccttccaaggttgt 357
```

RESULT 8
US-09-985-678-219271
; Sequence 219271, Application US/09985678
; GENERAL INFORMATION:
; APPLICANT: Cheikh, Nordine
; APPLICANT: Liu, Jingdong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 16517.255/38-21(15097)F
; CURRENT APPLICATION NUMBER: US/09/985,678
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: US 09/304,517
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 295529
; SEQ ID NO 219271
; LENGTH: 598
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(598)
; OTHER INFORMATION: unsure at all n locations
US-09-985-678-219271

Query Match 24.7%; Score 100.8; DB 6; Length 598;
Best Local Similarity 57.7%; Pred. No. 5.6e-20;
Matches 180; Conservative 0; Mismatches 132; Indels 0; Gaps 0;

```
Qy      96 atgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatactttcaa 155
           |||||||       |   || |||       |  | |||    | || ||  ||||
Db      24 atgaagttcaatccacgagtgtcgagcagccgccgcaagagccgaaaggctcacttcacg 83

Qy     156 gcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaactacgtacg 215
           || || ||    || ||  |  | || ||||| || ||  ||||   ||| || ||  ||
Db      84 gcgccgtcgagcgtgcggagggtgctgatgagcgcccctctgtcggcggagctccggtcg 143

Qy     216 aaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagttcgcgga 275
           || |||| ||| || ||  | ||  | || || || ||||| ||     | || ||||||
Db     144 aagtacaacgtgcggtcgatcccagtccgcaaggaggacgaggtgcaggtggtgcgcgga 203

Qy     276 gctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcggatacat 335
           | | ||||||| | || || || || ||   |   || ||    || |     || ||
Db     204 acatacaagggtcgcgaggggaaggtgacgcaggtgtaccgtcgcaagtgggtcatccac 263

Qy     336 atcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaatacatcca 395
           |||||| |  | ||| | || || | ||||||    || ||    || || || || ||
Db     264 atcgagcgcataacccgcgagaaggtgaatggctccaccgtcaacgttgggattcacccc 323

Qy     396 tctaatgttgtt 407
           || || || |||
Db     324 tccaaggtggtt 335
```

RESULT 9
US-09-637-086D-33331
; Sequence 33331, Application US/09637086D
; GENERAL INFORMATION:
; APPLICANT: Fincher, Karen L.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: McCarter, David W.
; APPLICANT: Pear, Julie R.
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(51375)B
; CURRENT APPLICATION NUMBER: US/09/637,086D
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: US 60/149,881
; PRIOR FILING DATE: 1999-08-19
; NUMBER OF SEQ ID NOS: 52949
; SEQ ID NO 33331
; LENGTH: 422
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3149-021-Q1-K1-C7
US-09-637-086D-33331

Query Match 24.5%; Score 99.8; DB 7; Length 422;
Best Local Similarity 59.9%; Pred. No. 1e-19;
Matches 167; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

```
Qy     130 gaaagcagaggaaagcatactttcaagcaccatcttctgtacgacgaatactcatgagtg 189
           | |||    | || ||  | ||   |||||| ||||| || || ||  |  | ||||| |
Db       2 gcaagagccgcaaggctcatttcacagcaccttcttccgtccgccgcgtcttaatgagcg 61

Qy     190 cacccttgtccaaggaactacgtacgaaatacagcgttcgttctttacctattcgaaaag 249
           ||||| | ||    || ||     | || |||| ||| || ||| | ||  | || || |
Db      62 caccctctcatccgatctgaagtccaagtacaacgtccggtctatgccggtgcgcaagg 121

Qy     250 aagacgaagtaatcatagttcgcggagctttcaagggtagagaaggaaaagttacaacgt 309
           | ||||| ||     | ||||| ||  | | ||||||  | |||||  |||||
Db     122 atgacgaggtccaagtggttcgtgggacctacaagggacgcgaagggaaagtggttcaag 181

Qy     310 gttatcgaaagaaatatcggatacatatcgagagagtgaccagagaaaaagcgaatggaa 369
             || ||    ||||    ||| || |||||| |  | ||  | || |||| ||| ||
Db     182 tgtaccgccgcaaatgggtgatccacatcgagcgcatcacgcgcgagaaagtgaacggtt 241

Qy     370 tgactgtacctgtgggaatacatccatctaatgttgtta 408
           || ||    || || ||  | |||||  || ||||| |
Db     242 ccaccgtcaacgttgggatcaacccatccaaggttgtca 280
```

RESULT 10
US-09-874-708A-47173/c
; Sequence 47173, Application US/09874708A
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(51933)B
; CURRENT APPLICATION NUMBER: US/09/874,708A
; CURRENT FILING DATE: 2001-12-20

```
;  PRIOR APPLICATION NUMBER: US 60/211,750
;  PRIOR FILING DATE: 2000-06-15
;  NUMBER OF SEQ ID NOS: 91742
; SEQ ID NO 47173
;   LENGTH: 619
;   TYPE: DNA
;   ORGANISM: Glycine max noir
;   FEATURE:
;   OTHER INFORMATION: Clone ID: uC-gmroLIB3258018a02a1
US-09-874-708A-47173


  Query Match            24.5%;  Score 99.8;  DB 7;  Length 619;
  Best Local Similarity  57.6%;  Pred. No. 1.1e-19;
  Matches  179;  Conservative    0;  Mismatches  132;  Indels    0;  Gaps    0;

Qy     96 atgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatactttcaa 155
          |||||||       |  ||| |||       |  | |||    | || ||  | ||
Db    615 ATGAAGTTCAATCCACGTGTGTCGAGCAGCCGCCGCAAGAGCCGAAAGGCTCATTTCACG 556

Qy    156 gcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaactacgtacg 215
          || || ||    || || ||  | || ||||| || ||  ||||   ||| || ||  |
Db    555 GCGCCGTCGAGCGTGCGGCGGGTGCTTATGAGCGCCCCTCTGTCGGCGGAGCTGCGGTCC 496

Qy    216 aaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagttcgcgga 275
          || |||| |||  | ||  | ||  | ||||| || ||||| ||     | || || |||
Db    495 AAGTACAACGTGAGGTCGATCCCAGTACGAAAGGAGGACGAGGTGCAGGTGGTGCGAGGA 436

Qy    276 gctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcggatacat 335
          | | |||||||  | || || || || ||   |   || ||    || |    ||| ||
Db    435 ACATACAAGGGTCGCGAGGGGAAGGTGACTCAGGTCTACCGTCGAAAGTGGGTGATTCAC 376

Qy    336 atcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaatacatcca 395
          || ||| |  | ||| | || || | ||||||    || ||    || || || || ||
Db    375 ATTGAGCGCATAACCCGCGAGAAGGTGAATGGTTCCACCGTCAACGTTGGGATTCACCCC 316

Qy    396 tctaatgttgt 406
          || || |||||
Db    315 TCCAAGGTTGT 305


RESULT  11
US-10-029-386-3796
; Sequence 3796, Application US/10029386
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
;  TITLE OF INVENTION:  EXPRESSION ANALYSIS TWO
;  FILE REFERENCE: AEOMICA-X-2
;  CURRENT APPLICATION NUMBER: US/10/029,386
;  CURRENT FILING DATE:  2001-12-20
;  NUMBER OF SEQ ID NOS: 34288
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 3796
;   LENGTH: 540
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: MAP TO CHR11.1
;   OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
;   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.6
;   OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
;   OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.6
;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.5
;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.5
;   OTHER INFORMATION: NT HIT: gi7705812, EVALUE 0.00e+00
;   OTHER INFORMATION: EST_HUMAN HIT: AV758467.1, EVALUE 0.00e+00
;   OTHER INFORMATION: SWISSPROT HIT: Q02877, EVALUE 1.00e-57
US-10-029-386-3796

  Query Match            24.4%;  Score 99.6;  DB 8;  Length 540;
  Best Local Similarity  59.0%;  Pred. No. 1.2e-19;
  Matches  190;  Conservative    0;  Mismatches  129;  Indels    3;  Gaps    1;

Qy     90 gtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatac 149
          ||| |||||||||         | ||  | |||    | || ||  |  | |||   |||
Db    149 gtcaccatgaagttcaatcccttcgttacctcggaccgcagtaaaaaccgcaaacgttac 208

Qy    150 tttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaacta 209
          ||  | || || ||    || ||  | |   |||||    | ||  | ||||||| ||
Db    209 ttcaatgccccctcacacgtgcgcaggaagatcatgtcatccccgctctccaaggagctg 268

Qy    210 cgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagtt 269
          ||   ||| ||||  || || ||  | || || || || || ||||| ||     |||||
Db    269 cggcagaagtacaatgtccgctccatgcccatccgcaaggacgacgaggtccaggtagtt 328

Qy    270 cgcggagctttcaagggtagagaa---ggaaaagttacaacgtgttatcgaaagaaatat 326
          || |||   | ||| |||    ||   || || ||      |   ||  ||||||||||
Db    329 cgaggacactacaaaggtcagcaaattggcaaggtagtccaggtgtacagaaagaaatat 388

Qy    327 cggatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtggga 386
             ||  | |||||| | |||    | || || || || || || | |||||| |  |||||
Db    389 gtcatctacatcgagcgggtgcagcgtgagaaggccaacggcacgactgtccacgtgggc 448

Qy    387 atacatccatctaatgttgtta 408
          || || |||   || || ||||
Db    449 attcacccaagcaaggtggtta 470


RESULT  12
US-09-985-678-274043
; Sequence 274043, Application US/09985678
; GENERAL INFORMATION:
;  APPLICANT: Cheikh, Nordine
;  APPLICANT:  Liu, Jingdong
;  TITLE OF INVENTION: Annotated Plant Genes
;  FILE REFERENCE: 16517.255/38-21(15097)F
;  CURRENT APPLICATION NUMBER: US/09/985,678
;  CURRENT FILING DATE:  2001-11-05
;  PRIOR APPLICATION NUMBER: US 09/304,517
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 295529
; SEQ ID NO 274043
;   LENGTH: 464
;   TYPE: DNA
;   ORGANISM: Glycine max
US-09-985-678-274043


  Query Match            24.1%;  Score 98.2;  DB 6;  Length 464;
  Best Local Similarity  57.2%;  Pred. No. 3.1e-19;
  Matches  178;  Conservative    0;  Mismatches  133;  Indels    0;  Gaps    0;

Qy     96 atgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatactttcaa 155
          |||||||       |  ||| |||       |  | |||    | || ||  | ||
Db     23 atgaagttcaatccacgtgtgtcgagcagccgccgcaagagccgaaaggctcatttcacg 82

Qy    156 gcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaactacgtacg 215
          || || ||    || || ||  | || ||||| || ||  ||||   ||| || ||  |
Db     83 gcgccgtcgagcgtgcggcgggtgcttatgagcgcccctctgtcggcggagctgcggtcc 142

Qy    216 aaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagttcgcgga 275
          || |||| |||  | ||  | ||  | || || || ||||| ||     | || || |||
Db    143 aagtacaacgtgaggtcgatcccagtacggaaggaggacgaggtgcaggtggtgcgagga 202

Qy    276 gctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcggatacat 335
          | | |||||||  | || || || || ||   |   || ||    || |    ||| ||
Db    203 acatacaagggtcgcgaggggaaggtgactcaggtctaccgtcgaaagtgggtgattcac 262

Qy    336 atcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaatacatcca 395
          || ||| |  | ||| | || || | ||||||    || ||    || || || || ||
Db    263 attgagcgcataacccgcgagaaggtgaatggttccaccgtcaacgttgggattcacccc 322
```

```
Qy    396 tctaatgttgt 406
          || || |||||
Db    323 tccaaggttgt 333


RESULT 13
US-09-874-708A-12192
; Sequence 12192, Application US/09874708A
; GENERAL INFORMATION:
;  APPLICANT: Byrum, Joseph R.
;  APPLICANT:  La Rosa, Thomas J.
;  APPLICANT:  Thompson, Michael D.
;  TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(51933)B
;  CURRENT APPLICATION NUMBER: US/09/874,708A
;  CURRENT FILING DATE:  2001-12-20
;  PRIOR APPLICATION NUMBER: US 60/211,750
;  PRIOR FILING DATE: 2000-06-15
;  NUMBER OF SEQ ID NOS: 91742
; SEQ ID NO 12192
;   LENGTH: 495
;   TYPE: DNA
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(495)
;   OTHER INFORMATION: unsure at all n locations
;   OTHER INFORMATION: Clone ID: uC-gmrominsoy258b11b1
US-09-874-708A-12192


  Query Match             24.1%;  Score 98.2;  DB 7;  Length 495;
  Best Local Similarity   57.2%;  Pred. No. 3.1e-19;
  Matches  178;  Conservative    0;  Mismatches  133;  Indels    0;  Gaps    0;

Qy     96 atgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatactttcaa 155
          |||||||       |  ||| |||       |  | |||    | || ||  | ||
Db     23 atgaagttcaatccacgtgtgtcgagcagccgccgcaagagccgaaaggctcatttcacg 82

Qy    156 gcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaactacgtacg 215
          || || ||    || || ||  | || ||||| || ||  ||||   ||| || ||  |
Db     83 gcgccgtcgagcgtgcggcgggtgcttatgagcgcccctctgtcggcggagctgcggtcc 142

Qy    216 aaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagttcgcgga 275
          || |||| |||  | ||  | ||  | || || || ||||| ||     | || || |||
Db    143 aagtacaacgtgaggtcgatcccagtacggaaggaggacgaggtgcaggtggtgcgagga 202

Qy    276 gctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcggatacat 335
          | | ||||||| | || || || || ||   |   || ||    || |    ||| ||
Db    203 acatacaagggtcgcgaggggaaggtgactcaggtctaccgtcgaaagtgggtgattcac 262

Qy    336 atcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaatacatcca 395
          || ||| |  | ||| | || || | ||||||    || ||    || || || || ||
Db    263 attgagcgcataacccgcgagaaggtgaatggttccaccgtcaacgttgggattcacccc 322

Qy    396 tctaatgttgt 406
          || || |||||
Db    323 tccaaggttgt 333


RESULT 14
US-09-874-708A-18007
; Sequence 18007, Application US/09874708A
; GENERAL INFORMATION:
;  APPLICANT: Byrum, Joseph R.
;  APPLICANT:  La Rosa, Thomas J.
;  APPLICANT:  Thompson, Michael D.
;  TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(51933)B
;  CURRENT APPLICATION NUMBER: US/09/874,708A
;  CURRENT FILING DATE:  2001-12-20
;  PRIOR APPLICATION NUMBER: US 60/211,750
;  PRIOR FILING DATE: 2000-06-15
;  NUMBER OF SEQ ID NOS: 91742
; SEQ ID NO 18007
;   LENGTH: 529
;   TYPE: DNA
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: uC-gmrominsoy121g08b1
US-09-874-708A-18007


  Query Match             24.1%;  Score 98.2;  DB 7;  Length 529;
  Best Local Similarity   57.2%;  Pred. No. 3.2e-19;
  Matches  178;  Conservative    0;  Mismatches  133;  Indels    0;  Gaps    0;

Qy     96 atgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatactttcaa 155
          |||||||       |  ||| |||       |  | |||    | || ||  | ||
Db     38 atgaagttcaatccacgtgtgtcgagcagccgccgcaagagccgaaaggctcatttcacg 97

Qy    156 gcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaactacgtacg 215
          || || ||    || || ||  | || ||||| || ||  ||||   ||| || ||  |
Db     98 gcgccgtcgagcgtgcggcgggtgcttatgagcgcccctctgtcggcggagctgcggtcc 157

Qy    216 aaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagttcgcgga 275
          || |||| |||  | ||  | ||  | || || || ||||| ||     | || || |||
Db    158 aagtacaacgtgaggtcgatcccagtacggaaggaggacgaggtgcaggtggtgcgagga 217

Qy    276 gctttcaagggtagagaaggaaaagttacaacgtgttatcgaaagaaatatcggatacat 335
          | | ||||||| | || || || || ||   |   || ||    || |    ||| ||
Db    218 acatacaagggtcgcgaggggaaggtgactcaggtctaccgtcgaaagtgggtgattcac 277

Qy    336 atcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtgggaatacatcca 395
          || ||| |  | ||| | || || | ||||||    || ||    || || || || ||
Db    278 attgagcgcataacccgcgagaaggtgaatggttccaccgtcaacgttgggattcacccc 337

Qy    396 tctaatgttgt 406
          || || |||||
Db    338 tccaaggttgt 348


RESULT 15
US-09-975-673A-7984
; Sequence 7984, Application US/09975673A
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc.
;  TITLE OF INVENTION: Novel Nucleic Acid Sequences Obtained
;  TITLE OF INVENTION:  From Various Libraries
;  FILE REFERENCE: 786
;  CURRENT APPLICATION NUMBER: US/09/975,673A
;  CURRENT FILING DATE:  2001-10-11
;  PRIOR APPLICATION NUMBER: PRIOR APPLICATIO NUMBER:09/496,911
;  PRIOR FILING DATE: PRIORFILING DATE: 2000-02-03
;  NUMBER OF SEQ ID NOS: 13944
;  SOFTWARE: Hy-patent.pl Version 3.1
; SEQ ID NO 7984
;   LENGTH: 388
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(388)
;   OTHER INFORMATION: n = A,T,C or G
US-09-975-673A-7984


  Query Match             24.0%;  Score 98;  DB 7;  Length 388;
  Best Local Similarity   58.7%;  Pred. No. 3.3e-19;
  Matches  189;  Conservative    0;  Mismatches  130;  Indels    3;  Gaps    1;

Qy     90 gtcgccatgaagtattccaaagttgtatcgtcgtctagaagaaagcagaggaaagcatac 149
          ||| |||||||||         | ||  | |||    | || ||  |  | |||    ||
Db     22 gtcaccatgaagtgcaatcccttcgttacctcggaccgcagtaaaaaccgcaaacgtcac 81
```

```
Qy     150 tttcaagcaccatcttctgtacgacgaatactcatgagtgcacccttgtccaaggaacta 209
           ||  | || || ||    || ||  | |   |||||    | ||  | |||||||| ||
Db      82 ttcaatgccccctcacacgtgcgcaggaagatcatgtcatccccgctctccaaggagctg 141

Qy     210 cgtacgaaatacagcgttcgttctttacctattcgaaaagaagacgaagtaatcatagtt 269
           ||   ||| ||||  || || ||  | || || || || || ||||| ||     |||||
Db     142 cggcagaagtacaatgtccgctccatgcccatccgcaaggacgacgaggtccaggtagtt 201

Qy     270 cgcggagctttcaagggtagagaa---ggaaaagttacaacgtgttatcgaaagaaatat 326
           || |||   | ||| |||    ||   || || ||      |   ||  ||||||||||
Db     202 cgaggacactacaaaggtcagcaaattggcaaggtagtccaggtgtacagaaagaaatat 261

Qy     327 cggatacatatcgagagagtgaccagagaaaaagcgaatggaatgactgtacctgtggga 386
           ||  | |||||| | |||    | || |||||| || || |  ||||| |  |||||
Db     262 gtcatctacatcgagcgggtgcagcgtgagaaagccaacggcacaactgtccacgtgggc 321

Qy     387 atacatccatctaatgttgtta 408
           || || |||   || || ||||
Db     322 attcacccaagcaaggtggtta 343


Search completed: March  2, 2002, 22:17:11
Job time: 8016 sec
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